Incidence of a hypermedia educational material on the Teaching and Learning of Mathematics

INTRODUCTION

ITCs They offer a great diversity of new resources to enrich the teaching and learning processes.

EDUCATIONAL CONTEXT WHERE WORK WITH HEM IS CARRIED OUT

CHARACTERISTICS OF HEM

METHODS

BEFORE STARTING

Survey with three parts:
- 1st Personal data
- 2nd Technology use and access
- 3rd Attitudes toward ITCs

AFTER STARTING

Survey with two parts:
- 1st The same as the 3rd above
- 2nd Easiness and difficulty of the topics covered.

Qualitative methodological techniques

INTERVIEWS WITH TEACHERS

POSITIVES aspects
- b) They thought it was POSITIVE
- d) Having to bring their own laptops.

NEGATIVES aspects
- 52% 6% 40%

DIFFICULTIES
- a) The additional time that they had to dedicate to using HEM.
- b) Difficulties to learn the GeoGebra program.
- c) Shortage of computers.

About PARTICIPANT OBSERVATION

RESULTS

CONCLUSIONS

Educational goals achieved

Use of a computer tool

Future

To improve

Number of devices available, time, and attitudinal aspects.

Increasing on improvement variables + barriers found + work with mobile devices.